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Amended Patent Claims

1. Method of controlling operation of at least one transmitter and at least one receiver
in a communication system, e.g. a system for transmission of control signals, request
5 signals, interrogation signals etc.,
whereby a signal comprising a message frame transmitted from a transmitter to a
receiver comprises a message part indicative of the time of transmission for a later
signal said message part forming part of said message frame,
whereby said at least one receiver registers said message part indicative of the time
10 of transmission for a later signal, and
whereby a transition of said at least one transmitter and/or one receiver from and into
a power saving state is facilitated.
2. Method according to claim 1, c h a r a c t e r i z e d i n that said message part
15 indicative of the time of transmission for a later signal relates to the time of
transmission for a following dataframe to be transmitted to said receiver.
3. Method according to claim 1 or 2, c h a r a c t e r i z e d i n that said message
part indicative of the time of transmission relates to a period of time following the
20 signal in question.
4. Method according to claim 1 or 2, c h a r a c t e r i z e d i n that said message
part indicative of the time of transmission relates to a point of time relating to a
timing reference established at each node or at least at one of the nodes involved.
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5. Method according to one or more of claims 1 - 4, c h a r a c t e r i z e d i n
that said transmitter is brought into a special mode, e.g. a sleep mode, a power
conserving mode, after having concluded transmission of said signal, preferably after
receipt of a confirmation signal from said receiver.
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6. Method according to claim 5, characterized in that said transmitter is controlled to wait a predetermined time for a response from said receiver, and, if no response is received, to retransmit said signal.

5 7. Method according to claim 6, characterized in that said transmitter is controlled to retransmit said signal a predetermined number of times, if no response is received.

8. Method according to one or more of claims 5 - 7, characterized in
10 that said transmitter is controlled to be brought into normal operating mode at - or before - the time of transmission indicated by said message part.

9. Method according to one or more of claims 1 - 8, characterized in
15 that said receiver is brought into a special mode, e.g. a sleep mode, a power conserving mode, after having received said signal, preferably after having transmitted a confirmation signal and possibly after a further retransmission time.

10. Method according to claim 9, characterized in that said receiver is
20 controlled to transmit a confirmation signal after having received said signal from the transmitter, and that the receiver subsequently will wait in a receive mode for a retransmission from the transmitter.

11. Method according to claim 10, characterized in that said receiver
25 will wait in the receive mode for a period of time corresponding to at least a transmission slot for the transmitter before entering said special mode.

12. Method according to one or more of claims 9 - 11, characterized in
30 that said receiver is controlled to be brought into normal operating mode at - or before - the time of transmission indicated by said message part.

13. Method according to one or more of claims 1 - 12, characterized in
that said method comprises steps of resuming synchronization in case said receiver

has not received said time indicative message part or in case said transmitter has not received confirmation from said receiver of receipt of said time indicative message part.

- 5 14. Method according to claim 13, c h a r a c t e r i z e d i n that said steps of resuming synchronization comprises the step of altering the operating mode of the transmitter until a communication has been established with the receiver, where after normal operating mode may be resumed.
- 10 15. Method according to claim 14, c h a r a c t e r i z e d i n that said steps of resuming synchronization comprises the step of altering the operating mode of the transmitter unit to a long preamble mode.
- 15 16. Method according to claim 13, 14 or 15, c h a r a c t e r i z e d i n that said steps of resuming synchronization comprises the step of altering the operating mode of the receiver until a communication has been established with the transmitter, where after normal operating mode may be resumed.
- 20 17. Method according to claim 16, c h a r a c t e r i z e d i n that said steps of resuming synchronization comprises the step of altering the operating mode of the receiver unit to a long preamble mode.
- 25 18. Method according to one or more of claims 1 - 17, c h a r a c t e r i z e d i n that said special mode of said transmitter and/or said receiver comprises a sleep mode, e.g. a low power consumption mode of a radio frequency operating part, e.g. a radio frequency transmitter or a receiver, respectively.
- 30 19. Method according to one or more of claims 1 - 18, c h a r a c t e r i z e d i n that said at least one transmitter and at least one receiver each may form part of a node comprising a transceiver arrangement.

20. Method according to one or more of claims 1 - 19, characterized in that said communication system comprises at least two nodes, each comprising at least a transmitter and/or a receiver for wireless transmission, e.g. radio frequency transmission.

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21. Method according to one or more of claims 1 - 20, characterized in that said time of transmission for a later signal is selected randomly, preferably from a predetermined interval.

10 22. Communication system comprising at least one transmitter and at least one receiver, e.g. a system for transmission of control signals, request signals, interrogation signals etc. wherein

said at least one transmitter is designed to be able to include a message part indicative of the time of transmission for a later signal when transmitting a signal to

15 said at least one receiver,

wherein said at least one receiver comprises control means to perform a time control in dependence on said message part indicative of the time of transmission for a later signal, and

20 wherein said system comprises means for facilitating a transition of said at least one transmitter and/or one receiver from and into a power saving state in dependence on said message part indicative of the time of transmission for a later signal.

23. Communication system according to claim 22, characterized in that said at least one transmitter and at least one receiver comprise timing means.

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24. Communication system according to claim 22 or 23, characterized in that said at least one receiver comprises control means for switching between at least two modes of operation in dependence on a received message part indicative of the time of transmission for a later signal.

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25. Communication system according to claim 22, 23 or 24, characterized in that said at least one transmitter comprises control means for switching between

at least two modes of operation in dependence on a transmitted message part indicative of the time of transmission for a later signal.

26. Communication system according to claim 24 or 25, characterized
5 in that said at least two modes of operation comprise a normal operating mode and a sleep mode, e.g. a power conserving mode.

27. Communication system according to claim 26, characterized in that
10 said sleep mode of said transmitter and/or said receiver comprises a low power consumption mode of a radio frequency operating part, e.g. a radio frequency transmitter or a receiver, respectively.

28. Communication system according to one or more of claims 22 - 27,
15 characterized in that said at least one transmitter and/or said at least one receiver comprises battery power supply means.

29. Communication system according to one or more of claims 22 - 28,
20 characterized in that said at least one transmitter and/or said at least one receiver comprises means, e.g. control means for determining a lack of synchronicity and means for initiating a synchronization resumption process.

30. Communication system according to one or more of claims 22 - 29,
25 characterized in that said system is designed to operate in accordance with a method according to one or more of claims 1 - 21.

31. Use of method according to one or more of claims 1 - 21 and/or system
30 according to one or more of claims 22 - 30 for updating of measures values in e.g. control, request and/or interrogation systems.